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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/004,572	12/04/2001	Peter V. Boesen	P05420US0	5119
	7590 02/11/2003			
MCKEE, VOORHEES & SEASE, P.L.C. 801 GRAND AVENUE SUITE 3200 DES MOINES, IA 50309-2721			EXAMINER	
			DOUGHERTY, THOMAS M	
DES MOINES	, IA 50309-2721		ART UNIT	PAPER NUMBER
			2834	
			DATE MAILED: 02/11/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Summer	10/004,572	BOESEN, PETER V.				
Office Action Summary	Examiner	Art Unit				
The MAILING DATE of this account	Thomas M. Dougherty	2834				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any Status						
1) Responsive to communication(s) filed on <u>04 December 2001</u> .						
[20] This is a mass	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) ☐ Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement						
Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on <u>04 December 2001</u> is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abovance. Sec 37 CED 4.95(a)						
is: a) approved b) disapproved by the Evaminer						
in approved, corrected drawings are required in reply to this Office action						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
14) Acknowledgment is made of a claim for demostic priority and a 25 to 5 t						
14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1.	4) Interview Summary (P75) Notice of Informal Pate 6) Other:	FO-413) Paper No(s) nt Application (PTO-152)				

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lesinski et al. (US 5,531,787) in view of Chen (US 6,031,317). Lesinski shows components for use in a voice communication device comprising: a bone conduction sensing pattern (microaccelerometer, see ABSTRACT) and a microphone sensing pattern (microaccuator, see ABSTRACT). He further a circuit portion (processor, see ABSTRACT) interconnected to the bone conduction sensing pattern and the microphone sensing pattern.

As noted Lesinski et al. do not show all three components on a single chip.

Chen shows (fig. 1) a chip (100) including two separate piezoelectric sensors (102, 104) and an integrated circuit (106) controlling them.

Chen shows his electronic sensor portion (106) overlaying the substrate.

The electronic sensor portion (106) includes a signal conditioning circuit (see fig. 3).

His piezoelectric portions (102, 104) are divided into first and second portions at opposite ends of the chip.



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Note that Chen's sensors are not noted as being restricted to any particular type of material but including a variety of piezoelectric compositions including polymers (e.g. polyvinylidene fluoride, see col. 4, lines 58-60).

Chen doesn't explicitly state that his device is for use in voice communication and he doesn't explicitly call his sensor components a bone conduction sensing pattern or a microphone sensing pattern.

It would have been obvious to one having ordinary skill in the art to employ all the components of Lesinski et al. on a single chip such as is taught by Chen, at the time of his invention, since this minimizes the chance of disconnection of the components and because it saves space.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The remaining prior art cited reads on at least some aspects of the claimed invention.

Direct inquiry concerning this action to Examiner Dougherty at (703) 308-1628.

February 7, 2003